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INDEX TO AMERICAN BOTANICAL LITERATURE

1916-1917

The aim of this Index is to include all current botanical literature written by Americans, published in America, or based upon American material; the word America being used in the broadest sense.

Reviews, and papers that relate exclusively to forestry, agriculture, horticulture, manufactured products of vegetable origin, or laboratory methods are not included, and no attempt is made to index the literature of bacteriology. An occasional exception is made in favor of some paper appearing in an American periodical which is devoted wholly to botany. Reprints are not mentioned unless they differ from the original in some important particular. If users of the Index will call the attention of the editor to errors or omissions, their kindness will be appreciated.

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- Arny, L. W.** Breeding for atropine. Jour. Heredity **8**: 164-167.
f. 6. Ap 1917.
- Bailey, L. H.** The Standard Cyclopedia of Horticulture **6**: i-v+3043-3639. pl. 101-120+f. 3516-4056. 1917.
- Berry, E. W.** Contributions to the Mesozoic flora of the Atlantic coastal plain, XII—Arkansas. Bull. Torrey Club **44**: 167-190.
pl. 7. 16 Ap 1917.
Dewalquea insigniformis and *Menispermities integrifolia*, spp. nov., are described.
- Berry, E. W.** A middle Eocene member of the "Sea Drift." Am. Jour. Sci. **43**: 298-300. f. 1. Ap 1917.
- Berry, E. W.** Notes on the history of the willows and poplars. Plant World **20**: 16-28. f. 1. Ja 1917.
- Bethel, E.** *Puccinia subnitens* and its aecial hosts. Phytopathology **7**: 92-94. Ap 1917.
- Boynnton, K. R.** *Buddleia Davidi*. Addisonia **2**: 9, 10. pl. 45. 31 Mr 1917.
- Brandeggee, T. S.** Plantae mexicanae purpusianiae.—VIII. Univ. Calif. Publ. Bot. **6**: 363-375. 23 Mr 1917.
Includes description of thirty new species.

- Britton, E. G.** A schedule for Arbor Day compositions on conservation. *Nature-Study Rev.* **13**: 140-142. Ap 1917.
- Britton, N. L.** *Peperomia obtusifolia*. *Addisonia* **2**: 19, 20. *pl.* 50. 31 Mr 1917.
- Buchanan, R. E.** Studies in the nomenclature and classification of the bacteria. II. The primary subdivisions of the Schyomycetes. *Jour. Bacteriology* **2**: 155-164. Mr 1917.
- Burkholder, W. H.** The perfect stage of *Gloeosporium venetum*. *Phytopathology* **7**: 83-91. *f.* 1-3. Ap 1917.
Includes descriptions of *Plectodiscella veneta* sp. nov.
- Buscalioni, L., & Muscatello, G.** Studio anatomo-biologico sul Gen. "Saurauia" Willd. con speciale riguardo alle specie americane. *Malpighia* **27**: 325-356. 1916.
- Buscalioni, L., & Muscatello, G.** Studio monografico sulle Specie Americane del Gen. "Saurauia" Willd. *Malpighia* **27**: 293-324. 1916; 487-502. 1916.
- Chase, A.** *Rev. E. J. Hill. Rhodora* **19**: 61-69. 17 Ap 1917. [Portrait.]
- Conn, H. J.** Soil flora studies. Part II. *Jour. Bacteriology* **2**: 137-154. Mr 1917.
- Cook, M. T.** Report of the department of plant pathology. New Jersey Agr. Exp. Sta. **1915**: 365-394. *pl.* 1-5. 1916.
- Coville, F. V.** How plants wake up from winter sleep. *Nature-Study Rev.* **13**: 143-147. Ap 1917. [Illust.]
- Davidson, J.** Selective permeability and the plasma-membrane. *Plant World* **19**: 331-394. N 1916.
- Elliott, J. A.** The sweet potato "soil rot" or "pox," a slime mold disease. *Delaware Agr. Exp. Sta. Bull.* **114**: 1-25. *pl.* 1-5 + *f.* 1-13. N 1916.
- Evans, A. W.** Notes on the genus *Herberta*, with a revision of the species known from Europe, Canada and the United States. *Bull. Torrey Club* **44**: 191-222. *pl.* 8 + *f.* 1-29. 16 Ap 1917.
Includes *Herberta Hutchinsiae*, and *H. tenuis*, spp. nov.
- Fernald, M. L.** Two new maritime plants of northeastern North America. *Rhodora* **19**: 76. 17 Ap 1917.
- Fernald, M. L.** The variations of *Polygonum pennsylvanicum*. *Rhodora* **19**: 70-73. 17 Ap 1917.
- Fitzpatrick, H. M.** The development of the ascocarp of *Rhizina undulata* Fr. *Bot. Gaz.* **63**: 282-296. *pl.* 17, 18. 16 Ap 1917.

- Fred, E. B., & Graul, E. J.** The gain in nitrogen from growth of legumes on acid soils. Wisconsin Agr. Exp. Sta. Research Bull. 39: 1-42. *pl. 1, 2+f. 1-16.* O 1916.
- Galloway, B. T.** Newton B. Price. Phytopathology 7: 143, 144. Ap 1917.
- Gates, R. R.** A revision of the genus *Polygonatum* in North America. Bull. Torrey Club 44: 117-126. *pl. 4-6.* 27 Mr 1917.
- Greenman, J. M.** Monograph of the North and Central American species of the genus *Senecio*—Part II. Ann. Missouri Bot. Gard. 4: 15-36. *pl. 4.* F 1917.
Four new species are described.
- Hansen, A. A.** Natural dwarfing. Jour. Heredity 8: 160-162. *f. 4, 5.* Ap 1917.
- Harper, R. M.** Some undescribed prairies in northeastern Arkansas. Plant World 20: 58-61. *f. 1, 2.* F 1917.
- Harrington, W. H.** Notes on some Ottawa district plants. Ottawa Nat. 30: 133-143. F 1917.
- Harris, J. A.** The application of correlation formulae to the problem of varietal differences in disease resistance: data from the Vermont experiments with potatoes. Am. Nat. 51: 238-244. Ap 1917.
- Harvey, R. B.** A method for producing conductivity water suitable for water culture experiments. Bot. Gaz. 63: 321, 322. *f. 1.* 16 Ap 1917.
- Herrera, A. L., & Nuñez, A. S.** Nuevas observaciones acerca de la siliza caloides solidificada. Bol. Dir. Estud. Biol. 1: 632-636. *f. 1-3.* S 1916.
"Estructuras de diatomeas y de trejidos vegetales."
- Humphrey, H. B.** *Puccinia glumarum*. Phytopathology 7: 142, 143. Ap 1917.
- Jones, D. F.** Dominance of linked factors as a means of accounting for heterosis. Proc. Nat. Acad. Sci. 3: 310-312. 15 Ap 1917.
- Jones, L. R.** Lightning injury to kale. Phytopathology 7: 140-142. *f. 1.* Ap 1917.
- Kenoyer, L. A.** Environmental influences on nectar secretion. Bot. Gaz. 63: 249-265. 16 Ap 1917.
- Kligler, I. J.** The evolution and relationship of the great groups of bacteria. Jour. Bacteriology 2: 165-176. Mr 1917.
- Lee, H. A.** A new bacterial citrus disease. Jour. Agr. Research 9: 1-8. *pl. A 1, 2.* 2 Ap 1917.

- Lindstrom, E. W.** Linkage in maize: aleurone and chlorophyll factors. *Am. Nat.* **51**: 225-237. Ap 1917.
- Lipman, C. B., & Gericke, W. F.** Experiments on the effects of constituents of solid smelter wastes on barley growth in pot cultures. *Univ. Calif. Publ. Agr. Sci.* **1**: 495-587. 26 Mr 1917.
- Livingston, B. E.** A quarter-century of growth in plant physiology. *Plant World* **20**: 1-15. Ja 1917.
- Lloyd, C. G.** Mycological notes—No. 45: 622-636. *f.* 883-909 + *portrait*. Ja 1917.
Contains notes on rare species of fungi received from correspondents.
- Lloyd, C. G.** Mycological notes—No. 46: 638-652. *f.* 910-932 + *portrait*. F 1917.
Includes notes on the genera *Mesophellia*, *Diploderma*, *Arachnion*, the *Xylarias*, etc.
- Lloyd, C. G.** Synopsis of some genera of the large Pyrenomycetes. 1-15. *f.* 826-857. *Cincinnati*. Ja 1917.
Camillea, *Thamnomycetes* and *Engleromyces*.
- MacCaughey, V.** An annotated list of the forest trees of the Hawaiian Archipelago. *Bull. Torrey Club* **44**: 145-157. 27 Mr 1917.
- MacCaughey, V.** The genus *Artocarpus* in the Hawaiian Islands. *Torreya* **17**: 33-49. 17 Ap 1917.
- MacCaughey, V.** The orchids of Hawaii. *Plant World* **19**: 350-355. N 1916.
- Mains, E. B.** Species of *Melampsora* occurring upon *Euphorbia* in North America. *Phytopathology* **7**: 101-105. Ap 1917.
Melampsora monticola sp. nov. is described.
- Mattoon, W. R.** *Pinus caribaea*: an extension of range in Louisiana. *Torreya* **17**: 49-52. *f.* 1, 2. 17 Ap 1917.
- Matz, J.** A *Rhizoctonia* of the fig. *Phytopathology* **7**: 110-117. *pl.* 2 + *f.* 1-3. Ap 1917.
Rhizoctonia microscleroidea sp. nov.
- McCubbin, W. A.** Contributions to our knowledge of the white pine blister rust. *Phytopathology* **7**: 95-100. *f.* 1. Ap 1917.
- Metcalfe, F. P., & Griscom, L.** Notes on rare New York state plants. *Rhodora* **19**: 48-55. Mr 1917.
- Millsbaugh, C. F.** *Trichosterigma benedictum*. *Addisonia* **2**: 3, 4. *pl.* 42. 31 Mr 1917.
- Nash, G. V.** *Avelia grandiflora*. *Addisonia* **2**: 17, 18. *pl.* 49. 31 Mr 1917.

- Nash, G. V.** *Benthamia japonica*. Addisonia 2: 5, 6. pl. 43. 31 Mr 1917.
- Nash, G. V.** *Gongora truncata alba*. Addisonia 2: 11, 12. pl. 46. 31 Mr 1917.
- Nash, G. V.** Hardy woody plants in the New York Botanical Garden. Jour. N. Y. Bot. Gard. 18: 65-68. Mr 1917.
- Newman, L. E.** The blister rust of white pine. Biltmorean 4: 1-9. f. 1-6.
- Noriega, J. M.** Les plantas mexicanas. Bol. Dir. Estud. Biol. 1: 641-683. f. 1-15. S 1916.
- Orton, C. R.** Diseases of the apple, pear and quince. Proc. Pennsylvania State Hort. Assoc. 1916: 45-52. f. 1-7. 1916.
- Orton, C. R.** Diseases of the brambles and methods of controlling them. Proc. Pennsylvania State Hort. Assoc. 1916: 66-71. f. 1-7. 1916.
- Osterhout, W. J. V.** Does the temperature coefficient of permeability indicate that it is chemical in nature? Bot. Gaz. 63: 317-320. 16 Ap 1917.
- Pember, F. R.** Studies by means of both pot and solution culture of the phosphorus and potassium requirements of the barley plant during its different periods of growth. Rhode Island Agr. Col. Exp. Sta. Bull. 169: 1-50. pl. 1, 2 + f. 1-3. Ja 1917.
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Includes *Sedum griseum* and *S. amecamecanum* from America.
- Pring, G. H.** Hybrid Nymphaeas. Ann. Missouri Bot. Gard. 4: 1-14. pl. 1-3 + f. 1-5. F 1917.
- Rankin, W. H.** White pine blister rust. Tree Talk 4: 77, 78. Fig. 17.
- Reed, E. L.** Leaf nectaries of *Gossypium*. Bot. Gaz. 63: 229-231. pl. 12, 13 + f. 1. 15 Mr 1917.
- Ridlon, H. C.** *Onoclea sensibilis* forma *obtusilobata*. Am. Fern Jour. 7: 6. F 1917.
Notes and illustrations by C. A. Weatherly follow on pages 6-9.
- Rojas Acosta, N.** Addenda ad floram Chaco Australis (1909). Bull. Géog. Bot. 23: 211-219. 1914.
New species in *Trophisomia* (1), *Maclura* (1), *Aristolochia* (1), *Labatia* (3), *Basanacantha* (1), *Begonia* (1), *Myrcialencus* (1), *Platorheedia* (1).

- Rosenbaum, J.** Studies of the genus *Phytophthora*. Proc. Nat. Acad. Sci. **3**: 159-163. 15 Mr 1917.
- Safford, W. E.** *Lignum nephriticum*—its history and an account of the remarkable fluorescence of its infusion. Smithsonian Rep. **1915**: 271-298. *pl.* 1-7. 1916.
- Sanders, J. G.** Save us from invading pests. Am. Forest. **23**: 147-153. Mr 1917. [Illust.]
- Sargent, C. S.** Botanical activities of Percival Lowell. Rhodora **19**: 21-24. 14 F 1917.
- Seaver, F. J.** Photographs and descriptions of cup-fungi—V. *Discina venosa*. Mycologia **9**: 53, 54. *pl.* 5. 22 Mr 1917.
- Shufeldt, R. W.** Early spring and summer flowers. Am. Forest. **26**: 161-165. *f.* 1-6. Mr 1917. [Illust.]
- Wiggans, R. G.** The number of temporary roots in the cereals. Jour. Am. Soc. Agron. **8**: 31-37. *pl.* 1. 1 F 1916.
- Wille, N.** Om Udbredelsen af *Artemisia norvegica* Fr. Bot. Not. **1916**: 133-137. 1916.
- Winslow, E. J.** Rev. James A. Bates. Am. Fern Jour. **7**: 1-3. Mr 1917. [Portrait.]